

Table of comparative maximum and minimum temperatures for March.

State or Territory.	Station.	For 1887.		Since establishment of station.			
		Max.	Min.	Max.	Year.	Min.	Year.
Alabama	Mobile	76.8	36.2	85.0	1879	29.0	1885
Do	Montgomery	79.9	32.4	86.3	1882	25.0	1873
Arizona	Prescott	76.2	23.1	90.0	1879	8.0	1876
Do	Fort Apache	78.9	21.8	83.0	1879	11.0	1881
Arkansas	Fort Smith	76.0	28.0	82.8	1884	23.5	1884
Do	Little Rock	74.9	30.0	83.0	1882	23.0	1886
California	San Francisco	78.0	45.0	77.0	1879	39.0	1880
Do	San Diego	82.2	43.5	99.0	1879	38.0	1880
Colorado	Denver	74.7	13.2	81.0	1879	10.7	1886
Do	Pike's Peak	31.3	4.9	43.0	1879	29.0	1875
Connecticut	New Haven	51.4	11.5	69.0	1880	0.2	1885
Do	New London	53.3	15.2	64.0	1878	4.0	1884
Dakota	Fort Buford	59.0	9.8	70.0	1879, 1882	23.0	1880
Do	Yankton	77.5	1.5	87.0	1879	16.0	1876, 1880
District of Columbia	Washington City	65.0	20.8	79.0	1880	4.0	1873
Florida	Jacksonville	80.0	35.7	88.0	1882	31.0	1873, 1876
Do	Key West	81.6	58.4	89.0	1873, 1874	53.0	1873, 1886
Georgia	Atlanta	73.5	25.2	81.0	1882	20.4	1885
Do	Savannah	81.2	32.5	87.0	1882	27.0	1873
Idaho	Boise City	73.6	23.8	76.0	1881	9.0	1882
Illinois	Cairo	74.6	24.2	84.0	1879	10.0	1873
Do	Chicago	68.0	9.3	73.0	1875	12.0	1873
Indiana	Indianapolis	69.6	15.8	77.0	1875	3.2	1885
Indian Territory	Fort Sill	86.0	26.0	95.0	1879	10.0	1880
Iowa	Dubuque	70.5	1.7	75.0	1875	10.0	1875
Do	Des Moines	72.4	9.8	80.0	1880	5.6	1884
Kansas	Dodge City	80.1	16.6	89.0	1879	8.0	1880
Do	Leavenworth	83.6	20.5	84.0	1879	2.0	1876
Kentucky	Louisville	79.3	18.0	79.0	1879	3.0	1873
Louisiana	New Orleans	80.8	43.8	84.0	1879	36.0	1885
Do	Shreveport	83.8	34.6	90.0	1882	26.0	1876
Maine	Eastport	45.0	2.0	53.0	1878	7.9	1886
Do	Portland	46.4	0.5	65.0	1874	7.0	1872
Maryland	Baltimore	56.6	21.4	76.0	1880	5.0	1873
Massachusetts	Boston	52.9	9.8	72.0	1880	7.5	1872
Michigan	Marquette	46.1	14.2	70.0	1878	16.0	1884
Do	Grand Haven	59.8	7.4	71.0	1878	4.9	1885
Minnesota	Saint Vincent	45.0	27.0	49.0	1881	31.0	1883
Do	Saint Paul	53.6	7.1	68.0	1879	22.5	1873
Mississippi	Vicksburg	80.1	36.9	85.0	1880	27.0	1885
Missouri	Saint Louis	79.1	22.9	82.0	1879	8.0	1873, 1876
Montana	Fort Assinaboine	60.2	14.7	68.2	1885	25.8	1884
Do	Helena	67.4	4.2	66.0	1881	10.0	1886
Nebraska	North Platte	78.0	10.0	86.0	1879	21.0	1880
Do	Omaha	78.1	10.2	82.0	1879	7.0	1880
Nevada	Winnemucca	74.7	17.7	82.0	1879	3.0	1882
New Hampshire	Mount Washington	32.3	25.9	47.0	1876	49.0	1872
New Jersey	Atlantic City	56.2	18.4	72.0	1880	8.0	1884
New Mexico	Santa Fe	67.0	19.5	82.0	1879	0.0	1880
New York	Buffalo	51.0	11.4	72.0	1875	4.1	1885
Do	New York City	49.6	16.3	72.0	1879	3.0	1872
North Carolina	Charlotte	79.7	26.8	79.0	1879, 1880	23.0	1884
Do	Wilmington	81.9	27.7	84.0	1878	20.0	1873
Ohio	Cincinnati	73.0	18.6	77.0	1875	1.0	1873
Do	Sandusky	62.0	10.9	76.0	1886	3.4	1885
Oregon	Portland	75.2	31.2	79.0	1886	25.5	1880
Do	Roseburg	81.0	28.6	80.0	1881, 1883	19.0	1880
Pennsylvania	Pittsburg	68.5	14.9	80.0	1876	2.0	1877
Do	Philadelphia	53.3	21.8	75.0	1880	5.0	1872
Rhode Island	Block Island	53.7	17.2	66.0	1886	5.8	1886
South Carolina	Charleston	80.0	33.9	85.0	1882	28.0	1876
Tennessee	Knoxville	75.6	21.6	83.0	1882	6.0	1873
Do	Memphis	76.8	30.2	85.0	1879	18.0	1876
Texas	Brownsville	84.8	46.9	92.3	1884	35.0	1880
Do	Fort Elliott	82.8	24.0	86.0	1880	3.0	1880
Utah	Salt Lake City	73.9	27.5	77.0	1879	4.0	1874
Virginia	Lynchburg	80.6	23.5	79.0	1879	16.0	1884
Do	Norfolk	75.8	25.1	81.0	1880	16.0	1882
Washington Ter.	Spokane Falls	65.7	15.2	74.0	1881	7.0	1882
Do	Olympia	63.2	25.2	71.0	1881	23.1	1880
Wisconsin	La Crosse	65.9	1.0	72.0	1875	23.0	1873
Do	Milwaukee	56.8	4.2	70.0	1878	8.5	1884

18th, 19th, 20th, 23d, 24th, 25th, 30th; Sanford, 1st, 18th, 19th; Duke, 1st, 19th 20th, 24th, 30th; Manatee, 1st, 29th; Alva, 15th, 17th, 18th.

East Gulf states.—15th, 18th to 20th, 22d, 23d, 29th, 30th.

West Gulf states.—10th, 11th, 14th, 17th, 18th, 21st to 25th, 28th, 29th, 30th.

Tennessee.—11th to 15th, 18th to 20th, 23d, 25th, 28th to 31st.

Ohio Valley.—1st to 6th, 8th to 31st.

Lake region.—1st to 31st.

Extreme northwest.—2d to 10th, 12th to 31st.

Upper Mississippi and Missouri valleys.—1st to 31st.

Northern slope.—1st to 31st.

Middle slope.—1st to 12th, 15th to 23d, 25th to 28th, 30th, 31st.

Southern slope.—1st to 6th, 8th to 11th, 13th, 14th, 16th, 17th, 20th to 25th, 27th, 28th, 29th, 31st.

Southern plateau.—1st 2d, 3d, 5th to 13th, 15th to 18th, 20th to 25th, 28th to 31st.

Middle plateau.—1st to 23d, 25th to 31st.

Northern plateau.—1st, 3d, 4th, 5th, 8th to 13th, 16th, 18th to 23d, 25th to 30th.

North Pacific coast region.—1st to 4th, 10th, 12th, 17th to 22d, 26th, 27th, 29th, 30th.

Middle Pacific coast region.—1st, 5th, 6th, 8th, 18th to 21st.

ICE.

Ice formed in the southern parts of the country as follows:

Arkansas.—Lead Hill, 22d, 23d, 28th, 29th; Little Rock, 29th.

Georgia.—Savannah, 28th, 31st.

Louisiana.—Liberty Hill, 22d, 23d.

South Carolina.—Spartanburg and Stateburg, 15th, 18th, 19th, 20th, 29th, 30th; Charleston, 18th, 29th.

Texas.—Corsicana, 23d, 28th, Palestine, 28th.

TEMPERATURE OF WATER.

The following table shows the maximum and minimum temperature of the water at the several stations; the monthly ranges of water temperature; the mean water temperature; the average depth at which the observations were made; and the mean temperature of the air:

Temperature of water for March, 1887.

Station.	Temperature at bottom.		Range.	Mean water temperature.	Mean temperature of the air at station.	Average depth, feet and tenths.
	Max.	Min.				
Alpena, Mich. a	o	o	o	o	o	o
Baltimore, Md.	41.5	37.8	3.7	39.4	37.8	11.6
Boston, Mass.	37.9	31.0	6.9	34.5	31.6	22.9
Buffalo, N. Y. a	72.4	57.3	5.1	64.6	61.3	8.3
Cedar Keys, Fla.	58.9	54.3	4.6	56.6	54.8	36.0
Charleston, S. C. b	51.4	37.4	14.0	42.7	40.3	3.3
Chincoteague, Va.	o	o	o	o	o	o
Cleveland, Ohio a	o	o	o	o	o	o
Detroit, Mich. a	o	o	o	o	o	o
Duluth, Minn. a	o	o	o	o	o	o
Eastport, Me.	36.0	34.0	2.0	35.1	28.5	14.1
Escanaba, Mich. a	o	o	o	o	o	o
Grand Haven, Mich.	36.1	32.1	4.0	33.7	27.3	17.8
Jacksonville, Fla.	69.9	56.1	13.8	63.4	59.5	18.0
Key West, Fla.	78.3	69.0	9.3	74.3	70.7	18.9
Mobile, Ala.	57.0	52.3	4.7	54.6	58.9	16.2
New London, Conn.	38.9	33.8	5.1	36.3	34.0	11.5
New York City	38.2	33.1	5.1	35.7	34.3	14.9
Norfolk, Va.	49.3	44.2	5.1	46.1	44.1	15.7
Pensacola, Fla.	68.4	58.3	10.1	64.4	60.2	18.0
Portland, Me.	37.1	30.0	7.1	33.9	28.8	17.0
Portland, Oregon	45.2	40.6	4.6	45.6	49.4	57.4
Sandusky, Ohio c	38.0	33.0	5.0	35.1	31.6	11.5
Savannah, Ga.	59.4	53.3	6.1	56.4	56.5	10.3
Toledo, Ohio d	42.5	33.2	9.3	38.2	31.8	15.8

a Frozen throughout the month. b Record for 26 days. c Record for 20 days; observations interrupted by ice. d Record for 29 days; observations interrupted by ice.

tables and fruit, especially in the upper counties, while the freeze on the 29th and 30th was very disastrous throughout the state; much of the fruit which survived the first-mentioned frost succumbing to the latter. All the early varieties of peaches were killed. Plums and cherries suffered severely. Strawberries were set back about two weeks. In some instances potatoes were injured, while beans, cucumbers, and squashes were killed.

Frosts occurred in the various districts as follows:

New England.—1st to 31st.

Middle Atlantic states.—1st to 31st.

South Atlantic states.—1st, 2d, 3d, 10th to 20th, 22d, 23d, 24th, 26th, 29th, 30th, 31st.

Florida.—Cedar Keys and Limona, 1st; Archer, 1st, 2d, 15th,

PRECIPITATION (expressed in inches and hundredths).

The distribution of precipitation over the United States and Canada for March, 1887, as determined from the reports of about six hundred stations, is exhibited on chart iii. In the

table of miscellaneous meteorological data are given, for each Signal Service station, the total precipitation, with the departures from the normal. The figures above the several geo-